2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 56

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
56	**41977**	**5**	**N**	**HANGMAN CREEK**	**TD36NP**	**90.798**	**20N**	**46E**	**29**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station HCStateline shows that 2 samples in 1994, and 14 samples in 1995 exceeded the criterion.							
56	**41978**	**5**	**N**	**HANGMAN CREEK**	**TD36NP**	**48.284**	**22N**	**44E**	**16**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station HCBradshaw shows that 3 samples in 1996, and5 samples in 1997 exceeded the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A200 (Hangman Creek @ Bradshaw Road) shows 0 excursions beyond the criterion out of 10 samples collected between 1993 - 2001						
56	**41985**	**5**	**N**	**HANGMAN CREEK**	**TD36NP**	**90.798**	**20N**	**46E**	**29**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station HCStateline(99) shows that 1 sample collected in the year 2001 exceeded the criterion.						Changed from Category 2 to Category 5 on 01/21/05 due to consolidation with Listing ID 41986 (cat 2). -kk Removed name of data submitter. 11/23/04 -kk	
56	**41987**	**5**	**N**	**HANGMAN CREEK**	**TD36NP**	**48.284**	**22N**	**44E**	**16**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station HCBradshaw(99) shows that 1 sample collected in the year 2001 exceeded the criterion. Spokane Conservation District data (submitted 4/29/2004), station HCBradshaw shows that 7 samples collected in years 1996 and 1997 exceeded the criterion with at least one exceedance in each of these years.						
56	**6726**	**5**	**Y**	**HANGMAN CREEK**	**TD36NP**	**84.46**	**20N**	**45E**	**13**	**Fecal Coliform**	**Water**
				Carey, 1989, 2 excursions beyond the criterion at RM 53.82 on 8/30/88 and 8/31/88.						Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 303(d) list assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
56	**16862**	**5**	**N**	**HANGMAN CREEK**	**TD36NP 0.573 25N 42E 23**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 56A070 shows 2 of 12 samples (16.7%) in year 2003 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 12 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 22 does not exceed the criterion and that 9% of the samples does not exceed the percentile criterion from 11 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 67 does not exceed the criterion and that 38% of the samples exceeds the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 50 does not exceed the criterion and that 17% of the samples exceeds the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 91 does not exceed the criterion and that 27% of the samples exceeds the percentile criterion from 11 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 51 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 44 does not exceed the criterion and that 20% of the samples exceeds the percentile criterion from 10 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (Hangman Cr. at Spokane) shows a geometric mean of 46 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1993.

56	**16863**	**5**	**N**	**HANGMAN CREEK**	**TD36NP 48.284 22N 44E 16**	**Fecal Coliform**	**Water**

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A200 (Hangman Creek @ Bradshaw Road) shows a geometric mean of 62 does not exceed the criterion and that 22% of the samples exceeds the percentile criterion from 9 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A200 (Hangman Creek @ Bradshaw Road) shows a geometric mean of 41 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.

56	**41992**	**5**	**N**	**HANGMAN CREEK**	**TD36NP 90.798 20N 46E 29**	**Fecal Coliform**	**Water**

Spokane Conservation District data (submitted 4/29/2004), station HCStateline shows 1 of 6 samples (16.7%) exceeded the percentile criterion in 1994 and 3 of 19 samples (15.8%) exceeded the percentile criterion in 1995.

56	**41993**	**5**	**N**	**HANGMAN CREEK**	**TD36NP 48.284 22N 44E 16**	**Fecal Coliform**	**Water**

Spokane Conservation District data (submitted 4/29/2004), station HCBradshaw shows a geometric mean of 106.5 exceeded the criterion in 1996; 3 of 13 samples (23.1%) exceeded the percentile criterion in 1996; and 1 of 11 samples exceeded the percentile criterion in 1997.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
56	**11391**	**5**	**Y**	**HANGMAN CREEK**	**TD36NP**	**0.573**	**25N**	**42E**	**23**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 56A070 shows that 2 of 29 samples exceed the criterion.						High pH	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (HANGMAN CREEK AT MOUTH) shows 16 excursions beyond the criterion out of 47 samples collected between 1993 - 2001.							
				Cusimano (2001) station HNG72.4 (Hangman Creek (HNG72.4)) shows 0 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.							
56	**3736**	**5**	**Y**	**HANGMAN CREEK**	**TD36NP**	**0.573**	**25N**	**42E**	**23**	**Temperature**	**Water**
				Dept. of Ecology unpublished data from core ambient monitoring station 56A070 (Hangman Cr. at Spokane) shows a 7-day mean of daily maximum values of 25.4 for mid-week 12 July 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (HANGMAN CREEK AT MOUTH) shows 9 excursions beyond the criterion out of 47 samples collected between 1993 - 2001							
				Cusimano (2001) station HNG72.4 (Hangman Creek (HNG72.4)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 .							
56	**40942**	**5**	**N**	**HANGMAN CREEK**	**TD36NP**	**48.284**	**22N**	**44E**	**16**	**Turbidity**	**Water**
				Spokane CD (1999) shows low flow turbidity excursions in 1 out of 16 samples and high flow turbidity excursions in 14 out of 23 samples.							
56	**41979**	**5**	**N**	**LITTLE HANGMAN CREEK**	**DB09ZX**	**0.258**	**20N**	**45E**	**13**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station LHC-Tekoa shows that 12 samples in 1994, and 3 samples in 1995 exceeded the criterion.							
56	**41994**	**5**	**N**	**LITTLE HANGMAN CREEK**	**DB09ZX**	**0.258**	**20N**	**45E**	**13**	**Fecal Coliform**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station LHC-Tekoa shows 1 of 6 samples (16.7%) exceeded the percentile criterion in 1994 and 7 of 19 samples (36.8%) exceeded the percentile criterion in 1995.							
56	**40940**	**5**	**N**	**LITTLE HANGMAN CREEK**	**DB09ZX**	**0**	**20N**	**45E**	**24**	**Turbidity**	**Water**
				Spokane CD (1999) shows low flow turbidity excursions in 7 out of 19 samples and high flow turbidity excursions in 6 out of 10 samples.							
56	**40941**	**5**	**N**	**RATTLERS RUN CREEK**	**OS64LX**	**0**	**22N**	**44E**	**16**	**Turbidity**	**Water**
				Spokane CD (1999) shows low flow turbidity excursions in 7 out of 41 samples and high flow turbidity excursions in 6 out of 10 samples.							
56	**41990**	**5**	**N**	**ROCK CREEK**	**HW71ES**	**11.615**	**23N**	**44E**	**23**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station RC-Jackson shows that 8 samples collected in years 1995 and 1997 exceeded the criterion with at least one exceedance in each of these years.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
56	**41996**	**5**	**N**	**ROCK CREEK**	**HW71ES**	**11.615**	**23N**	**44E**	**23**	**Fecal Coliform**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station RC-Jackson shows 2 of 7 samples (28.6%) exceeded the percentile criterion in 1994; 8 of 25 samples (32.0%) exceeded the percentile criterion in 1995; 2 of 14 samples (14.3%) exceeded the percentile criterion in 1996; and 5 of 12 sample (41.7%) exceeded the percentile criterion in 1997.						
56	**40943**	**5**	**N**	**ROCK CREEK**	**HW71ES**	**11.615**	**23N**	**44E**	**23**	**Turbidity**	**Water**
				Spokane CD (1999) shows low flow turbidity excursions in 6 out of 44 samples and high flow turbidity excursions in 46 out of 63 samples.							